IBM Personal System/2 Model 55 LS

386SX performance packaged especially for your network

Now there's a Personal System/2® that arrives ready for work in your Token-Ring or Ethernet™ network: the Model 55 LS. Specially configured to take programs and data files from a server, it's a powerful network station you can add to your network without delay.

Packing 80386SX™ processing power and 2MB of memory, this high-performance LAN station is a PS/2® Model 55 SX with three important differences that benefit you: It's preconfigured with a Token-Ring or Ethernet network adapter card, so putting it on your network is as simple as plugging in. It also has a Remote Program Load feature preinstalled, so you can protect files and programs. And it's medialess, so you get a cost-effective network solution now—and can easily upgrade later by adding data storage devices whenever you like.

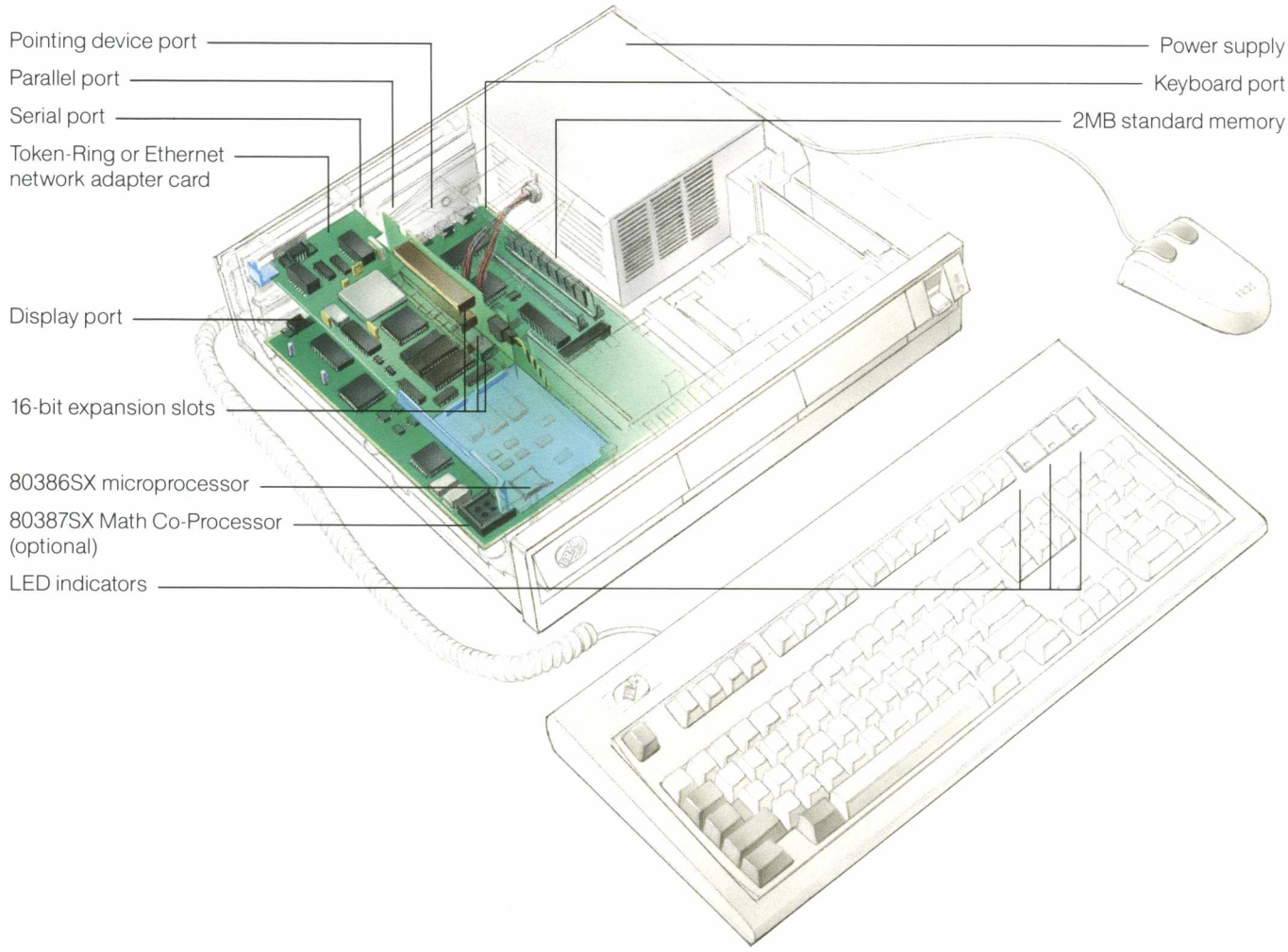
Model 55 LS at work

Here are some of the ways you can put the Model 55 LS to work for you:

- Share a wide range of resources—including files, operating systems, programs, printers, plotters and other peripherals—with ease
- Manage LANs more effectively by maintaining central control of programs and files
- Process all of your business applications—even advanced 32-bit, 386-based applications—without paying top price
- Connect to your IBM System/370™ or IBM 4300 Processor via a LAN communication server—and use the 55 LS as an intelligent mainframe-driven display terminal
- Install diskette drives or fixed disks to gain local storage space as your needs change

IBM

Feature	Benefit
Preinstalled Token-Ring or Ethernet with Remote Program Load	• Supports 4Mbps or 16Mbps Token-Ring networks • Makes the Model 55 LS a network workstation that you can simply plug in
Medialess system	• Helps prevent unauthorized access to programs and data • Facilitates centralized control at the network manager's station • Provides a very economical LAN workstation
16 MHz 80386SX microprocessor	• Delivers impressive speed and power for complex business or technical applications • Enhances performance—supports 32-bit, 386 applications at a 286 price
Two open bays	• Give you room to install a diskette drive and up to 60MB of fixed disk storage when you want to upgrade
Two available expansion slots	• Let you add more function
Micro Channel® architecture	• Provides efficient data paths for fast, reliable, balanced performance • Protects investment by providing a platform for future expansion and growth
Up to 8MB memory on the system board	• Gives you plenty of room and workspace without using expansion slot • Lets you work with large amounts of data
Built-in VGA capabilities	• Provide high-quality, high-detail graphics and text



Wide range of options[1]

	Part no.
Storage devices	
• 3.5" 1.44MB 1-Inch High Diskette Drive	6451072
• 5.25" 1.2MB External Diskette Drive	4869002
• 5.25" 360KB External Diskette Drive	4869001
• 30MB Fixed Disk Drive	6451086
• 60MB Fixed Disk Drive	6451084
• External CD-ROM Drive	3510001
• 6157 Streaming Tape Drive (60MB, 150MB)	6157001/6157002
• 3363 External Optical Disk A11	68X7946
• 3363 External Optical Disk B01	63X4182
Scanners	
• 3117 Scanner	3117010
• 3118 Scanner	3118010/3118020
• 3119 PageScanner	94X2410
Connectivity/communications	
• Token-Ring Network Adapter A	69X8138
• Token-Ring Network 16/4 Adapter/A	16F1133
• Token-Ring Network 16/4 Trace and Performance Adapter/A	74F5130
• Adapter/A for Ethernet Networks	6451091
• Dual Async Adapter/A	6451013
• Multi-Protocol Adapter/A	6451003
• 3270 Connection	74F3465
• 300/1200/2400 Internal Modem/A	94X1755
• Leased Line Modem	26F1862
• System 36/38™ W/S Emulation Adapter/A	69X6279
• System/370 Channel Emulation Adapter/A	06F3160
• Realtime Interface Co-Processor Multiport/2 and related features	09F1897[2]
• Realtime Interface Co-Processor Portmaster Adapter/A and related features	53F2601[2]
• X.25 Realtime Interface Co-Processor/2	16F1858
Image graphics and multimedia	
• XGA Display Adapter/A	75X5887
• Display Adapter 8514/A	1887972
• Image Adapter/A Series	44F9914[2]
• Audio Capture/Playback Adapter/A	34F2784
• Video Capture Adapter/A	34F2785
• M-Motion Video Adapter/A	34F3087
Other features	
• Micro Channel SCSI Adapter	6451109
• Micro Channel SCSI Adapter with Cache	6451110
• Mouse	6450350
• Screen Reader™	6450602

Memory matrix tables

Memory on system board	**Model 55 LS**
Standard memory	2MB
Maximum memory	8MB*
System board memory expansion kits (part number)	1MB (6450603) 2MB (6450604) 4MB (87F9977)
Number of memory kits that can be added on system board	1
Memory configuration possible on system board	2MB, 3MB, 4MB, 5MB,* 6MB, 8MB*
Memory options (cards)	
Memory expansion card: size (part number) and capacity range	2MB (6540609) 2–8MB
Memory kits to upgrade card	1MB (6450603) 2MB (6450604)
Maximum number of memory kits that can be added to each memory card	3
Maximum number of memory cards/system	2
Maximum system memory	16MB

**Achieving this configuration requires replacing the standard 2MB kit with a 4MB kit.*

Why PS/2?

Here are some of the reasons why PS/2 stands out as the best solution for your business needs.

Technological leadership through Micro Channel architecture, integrated construction, and advanced design (by combining Very Large Scale Integration and Surface Mount Technology), and support for large memory.

Extensive communications capabilities—through a wide range of connectivity options—that assure concurrent support for intelligent communications adapters and co-processors, thanks to Micro Channel architecture.

Compatibility to protect your investment since the PS/2s you have today work with existing products and programs and with those you'll need tomorrow.

Service and support that provide you with everything from fast parts delivery to on-site services to system planning to 24-hour phone support—all at a competitive price.

Business Partners who enhance PS/2 capabilities by helping customers choose, customize and configure hardware and software to meet a range of needs.

Quality and reliability that ensure PS/2s are built to perform smoothly and dependably year after year.

®*IBM, Personal System/2, PS/2, Micro Channel, Quietwriter, Quickwriter, Operating System/2, and OS/2 are registered trademarks of International Business Machines Corporation. NetWare is a registered trademark of Novell Inc.*

™*System/370, System/36 and System/38, Screen Reader, and Proprinter are trademarks of International Business Machines Corporation. Ethernet is a trademark of Xerox Corporation. 80386SX is a trademark of Intel Corporation.*

[1] *The options listed may require other features for the desired function or for installation.*

[2] *There is more than one part number for this type of option depending on the amount of on-card memory and/or other functions desired.*

[3] *128KB of this memory is reserved for hardware system use.*

[4] *Supported by PS/2 Image Adapter/A.*

IBM Personal System/2 Model 55 LS at a glance

Machine numbers	8555-LT0	8555-LE0
Microprocessor		
Standard	80386SX	80386SX
Clock speed	16 MHz	16 MHz
Wait states	0–2	0–2
Optional	80387SX	80387SX
Clock speed	16 MHz	16 MHz
Part number	27F4676	27F4676
Bus architecture	Micro Channel	Micro Channel
Data path	16-bit	16-bit
Memory (RAM)[3]		
Standard	2MB (100ns)	2MB (100ns)
Maximum on system board	8MB[2]	8MB[2]
System maximum	16MB	16MB
Integrated functions	Video Graphics Array (VGA) and display port, serial port, parallel port, pointing device port, keyboard port, disk and diskette controllers, Token-Ring 16/4 Adapter/A with RPL feature (-LT0); Ethernet Adapter (-LE0)	
Available expansion slots	Two 16-bit	Two 16-bit
Diskette storage (Internal)		
Standard (3.5-inch)	—	—
Optional	One 1.44MB	One 1.44 MB
Fixed disk storage		
Standard	—	—
Optional	30MB or 60MB	30MB or 60MB
Display modes	VGA (includes all EGA, CGA and MCGA modes)	
Text	360 or 720 x 400; 9 x 16 pel character matrix; 80 columns x 25 rows; up to 16 colors	
Graphics	320 x 200 x 256 colors or 64 gray shades; 640 x 480 x 16 colors or 16 gray shades; palette of 256,000 colors or 64 gray shades	
Optional graphics	Expanded graphics modes, including 1,024 x 768 x 256 colors, are supported via the optional PS/2 Display Adapter 8514/A or PS/2 XGA Display Adapter/A and related features; higher resolution modes, up to 1,600 x 1,200, are supported by the PS/2 Image Adapter/A family of adapters	
Supported displays	IBM Personal System/2 Color Displays 8512, 8513, 8514 and 8515; IBM Personal System/2 Monochrome Displays 8503, 8506,[4] 8507 and 8508[4]	
Supported printers/ plotters	IBM Proprinter™ family, IBM LaserPrinter family, IBM Quietwriter® III, IBM Pageprinter 3812/3816; IBM Quickwriter,® IBM 618X and 737X Color Plotters	
Keyboard	101 keys, including 12 function keys, three lighted mode indicators; 6-foot coiled cable	
Power supply	90-watt worldwide	
Operating systems	DOS 3.3 or 4.0 client support provided by an Operating System/2® server using OS/2® Extended Edition 1.2 or 1.3 and OS/2 LAN Server 1.2 or 1.3;[5] or by a DOS server using DOS 3.3 or 4.0, PC LAN Program 1.33, and LAN Support Program 1.2	DOS client support of DOS 3.3 or 4.0 provided by Novell NetWare® 286 or 386[5]
Size	Approx. 4.0"H x 16.0"W x 15.6"D (102mm x 406mm x 397mm); 18 lbs. (8.2 kg)	
Warranty	One-year limited warranty	

[5] *A future release of OS/2 LAN Server will provide OS/2 client support in a Token-Ring Network and both DOS and OS/2 client support in an Ethernet network.*

©IBM Corporation 1990

International Business Machines Corporation
US Marketing & Services
Department ZW1
1133 Westchester Avenue
White Plains, NY 10604

Printed in the United States of America
9-90

All Rights Reserved

References in this publication to IBM products or services do not imply that IBM intends to make them available outside the United States.

Check with your IBM representative for electrical requirements outside the United States.

G221-3029-00